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**Improvements in or relating to displays.**

An optical system for a display having a combiner (1) with a non-conformal reflection hologram and in which an intermediate image (II) of a display source is formed at a location in the light path to and spaced from the combiner (1), the system comprising at least one diffractive element (5,7) disposed in the light path between the display source (2) and the intermediate image (II) and arranged to counter, at least partially, the chromatic dispersion of the non-conformal reflection hologram (1).



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EUROPEAN SEARCH REPORT

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EP 92 30 6628

| DOCUMENTS CONSIDERED TO BE RELEVANT   |   |   |  |
|---|---|---|--|
| Category  | Citation of document with indication, where appropriate, of relevant passages   | Relevant to claim   | CLASSIFICATION OF THE APPLICATION (Int.Cl.5) |
| A   | PATENT ABSTRACTS OF JAPAN<br>vol. 12, no. 278 (P-738)1 August 1988<br>& JP-A-63 058 317 (SHIMADZU) 14 March 1988<br>* abstract; figure *<br>---         | 1,5,6,8   | G02B27/00<br>G02B5/32                        |
| A   | GB-A-2 197 728 (YAZAKI CORP)<br>* the whole document *<br>---   | 1,5,8   |  |
| A   | EP-A-0 405 540 (HUGHES AIRCRAFT)<br>* the whole document *<br>---   | 1,5,8   |  |
| A   | GB-A-2 161 615 (FORD MOTOR COMPANY)<br>* the whole document *<br>---  | 1,5,8   |  |
| A   | EP-A-0 278 395 (NIPPONDENSO)<br>* the whole document *<br>---   | 1,5,8   |  |
| A   | PATENT ABSTRACTS OF JAPAN<br>vol. 12, no. 477 (P-800)14 December 1988<br>& JP-A-63 194 201 (NIPPON DENSO) 11 August 1988<br>* abstract; figure *<br>--- | 1,5,8   |  |
| D,A   | GB-A-1 489 323 (HUGHES AIRCRAFT)<br>* the whole document *<br>-----   | 1,6,7,10  |  |
|   |   |   | TECHNICAL FIELDS SEARCHED (Int.Cl.5)         |
|   |   |   | G02B<br>G09B                                 |
| The present search report has been drawn up for all claims  |   |   |  |
| Place of search   |   | Date of completion of the search  | Examiner                                     |
| THE HAGUE   |   | 7 January 1994  | Ward, S                                      |
| CATEGORY OF CITED DOCUMENTS   |   |   |  |
| X : particularly relevant if taken alone<br>Y : particularly relevant if combined with another document of the same category<br>A : technological background<br>O : non-written disclosure<br>P : intermediate document |   | T : theory or principle underlying the invention<br>E : earlier patent document, but published on, or after the filing date<br>D : document cited in the application<br>L : document cited for other reasons<br>.....<br>& : member of the same patent family, corresponding document |  |

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